

FORM PTO-1449			Atty. Docket No. A-9837E	Appln. No. 10/613,071
<u>LIST OF DOCUMENTS CITED BY APPLICANT</u>			Applicant Lars Ivar SAMUELSON et al.	
			Filing Date July 7, 2003	Group 2811 2815
SEP 29 2004 U.S. PATENT DOCUMENTS				

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	AA	2002/0172820	11/21/02	Majumdar et al.	428	357	
	AB	2002/0129761	9/19/02	Takami	117	73	
	AC	5,362,972	11/8/94	Yazawa et al	257	13	
	AD	5,332,910	7/26/94	Haraguchi et al.	257	13	

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	AE	WO 01/84238	11/8/01	WIPO			

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	AF	Yasawa, M. et al., "Heteroepitaxial Ultrafine Wire-Like Growth of InAs on GaAs Substrates", <u>Appl. Phys. Lett.</u> , Vol. 58, No. 10, March 11, 1991, pp. 1080-1082.
	AG	Haraguchi, K. et al., "GaAs p-n junction formed in quantum wire crystals", <u>Applied Physics Letters</u> , Vol. 60, No. 6, February 10, 1992, pp. 745-747
	AH	Yazawa, M., et al., "Effect of one monolayer of surface gold atoms on the epitaxial growth of InAs nanowiskers", <u>Applied Physics Letters</u> , Vol. 61, October 26, 1992, pp. 2051-2053.
	AI	Yazawa, M., "Nanocolumns composed of GaAs-InAs jointed whiskers and SiO <sub>2</sub> covers", <u>Applied Physics Letters</u> , Vol. 65, August 29, 1994, pp. 1157-1158
	AJ	Sato, T., "Site-controlled growth of nanowiskers", <u>Applied Physics Letters</u> , Vol. 66, January 9, 1995, pp. 159-161.
	AK	Hiruma, K., et al., "Growth and optical properties of nanometer-scale GaAs and InAs whiskers", <u>Applied Physics Review</u> , Vol. 77, January 15, 1995, pp. 447-462.
	AL	Hiruma K., et al., "Growth and Characterization of Nanometer-Scale GaAs, AlGaAs and GaAs/InAs Wires", <u>IEICE Trans. Electron.</u> , Vol. E77-C, No. 9, September 1, 1994, pp. 1420-1425.
	AM	Hiruma, K. et al., "GaAs free-standing quantum-size wires", <u>Journal of Applied Physics</u> , Vol. 74, September 1, 1993, pp. 3162-3171.
	AN	Haraguchi, K., et al., "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", <u>Journal of Applied Physics</u> , Vol. 75, April 15, 1994, pp. 4220-4225.
	AO	Hiruma, K., et al., "Self-organized growth of GaAs/InAs heterostructure nanocylinders by organometallic vapor phase epitaxy", <u>Journal of Crystal Growth</u> , Vol. 163, January 1, 1996, pp. 226-231.
	AP	Lieber, C., "Nanowires as Building Blocks for Nanoscale Science and Technology", <u>Abstracts of Papers of the Amer. Chem Soc.</u> , Vol. 224, August 18, 2002, pp. 033-Comp Part 1.

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Jerome Groboff 3/05

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	BB	6,159,742	12/12/00	Lieber et al.	436	164	
	BC	5,997,832	12/7/99	Lieber et al.	423	249	
	BD	5,840,435	11/24/98	Lieber et al.	428	689	
	BE	5,252,835	10/12/93	Lieber et al.	250	492.1	

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	BH	Duan, X. et al., "Laser Assisted Catalytic Growth of Semiconductor Nanowires for Nanoscale Electronic Optoelectronic Device Application", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 221, April 1, 2001, pp. 644-Inor Part 1.
	BI	Lieber, C., "Semiconductor Nanowires: Building Blocks for Nanoscale Science and Technology", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 222, August 1, 2001, pp. 383-Phys Part 2.
	BJ	Huang, Y., et al., "Integrated Optoelectronics Assembled from Semiconductor Nanowires", <u>Abstracts of Papers of the Amer. Chem. Soc.</u> , Vol. 224, August 18, 2002, pp. 093-Phys - Part 2.
	BK	Hu, J. et al., "Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes", <u>Acc. Chem. Res.</u> , Vol. 32, No. 5, February 20, 1999, p. 435-445.
	BL	Duan, X. et al., "General Synthesis of Compound Semiconductor Nanowires", <u>Advanced Materials</u> , Vol. 12, No. 4, January 1, 2000, pp. 298-302.
	BM	Duan, X., et al., "Synthesis and optical properties of gallium arsenide nanowires", <u>Applied Physics Letters</u> , Vol. 76, No. 9, February 28, 2000, pp. 1116-1118.
	BN	Cui, Y., et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", <u>Applied Physics Letters</u> , Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.

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<i>JH</i>	CA	6,307,241	10/23/01	Awschalom et al.	257	421	
<i>JH</i>	CB	5,196,396	3/23/93	Lieber	505	1	
<i>JH</i>	CC	6,716,409	4/6/04	Hafner et al.	423	447	
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<i>JH</i>	CD	WO 03/005450	1/16/03	WIPO			
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<i>*</i>	CE	<del>Gudiksen M.S., et al., "Diameter-selective synthesis of semiconductor nanowires", J. Am. Chem. Soc., Vol. 122, August 22, 2000, pp. 8801-8802.</del>					
<i>JH</i>	CF	<del>Gudiksen M., et al., "Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires", Journal of Physical Chemistry B, Vol. 106, No. 16, March 30, 2002, pp. 4036-4039.</del>					
<i>*</i>	CG	<del>Duan, X., et al., "Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires", Journal of Amer. Chem. Soc., Vol. 122, NO. 1, December 16, 1999, pp. 188-189.</del>					
<i>JH</i>	CH	<del>Huang, Y., et al., "Gallium Nitride Nanowire Nanodevices", Nano Letters, Vol. 2, No. 2, January 11, 2002, pp. 81-82.</del>					
<i>JH</i>	CI	<del>Lieber C., "Nanowire Superlattices", Nano Letters, Vol. 2, No. 2, January 25, 2002, pp. 82-82.</del>					
	CJ	<del>Duan, X., et al., "Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires", Nano Letters, Vol. 2, No. 5, May 1, 2002, pp. 487-490.</del>					
<i>JH</i>	CK	<del>Cui, Y., et al., "High Performance Silicon Nanowire Field Effect Transistors", Nano Letters, Vol. 3, No. 2, January 1, 2003, pp. 149-152.</del>					
<i>JH</i>	CL	<del>Zhong, Z., et al., "Synthesis of P-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices", Nano Letters, Vol. 3, No. 3, February 20, 2003, pp. 343-346.</del>					
<i>*</i>	CM	<del>Hu, J., et al., "Controlled Growth and Electrical Properties of Heterojunctions of Carbon Nanotubes and Silicon Nanowires", Nature, Vol. 399, May 6, 1999, pp. 48-51.</del>					
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<i>J</i>	DA	6,743,408	6/1/04	Lieber et al.	423	447.1	
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<i>J</i>	DB	WO 01/03208	1/11/01	WIPO			
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	DC	Duan, X., et al., "Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices", <u>Nature</u> , Vol. 409, January 4, 2001, pp. 66-69.					
	DD	Gudiksen M., et al., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", <u>Nature</u> , Vol. 415, February 7, 2002, pp. 617-620.					
	DE	Lauhon, L., et al., "Epitaxial Core-Shell and Core-Multishell Nanowire Heterostructures", <u>Nature</u> , Vol. 420, No. 6911, November 7, 2002, pp. 57-61.					
	DF	Duan, X., "Single-nanowire electrically driven lasers", <u>Nature</u> , Vol. 421, January 16, 2003, pp. 241-244.					
	DG	Lieber, C., "The incredible shrinking circuit", <u>Sci. Am.</u> , Vol. 285, September 1, 2001, pp. 58-64.					
	DH	Morales, A., et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", <u>Science</u> , Vol. 279, January 9, 1998, pp. 208-211.					
	DJ	Cui Y., et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", <u>Science</u> , Vol. 291, February 2, 2001, pp. 851-853.					
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<i>J</i>	DL	Cui Y., et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", <u>Science</u> , Vol. 293, August 17, 2001, pp. 1289-1292.					
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*Jerome Jackson* 3/05-

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	EB	WO 97/31139	8/28/97	WIPO			
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	EC	Buang, Y., et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks", <u>Science</u> , Vol. 294, November 9, 2001, pp. 1313-1317.					
	ED	Cui, Y., et al., "Doping and Electrical Transport in Silicon Nanowires", <u>The Journal of Physical Chemistry B</u> , Vol. 104, No. 22, May 11, 2000, pp. 5213-5216.					
	EE	Gudiksen M., et al., "Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires", <u>The Journal of Physical Chemistry B</u> , Vol. 105, April 18, 2001, pp. 4062-4064.					
	EF	Morales, A. et al., "Rational Synthesis of Silicon Nanowires", <u>INOR</u> , 651, January 1, 2001.					
	EG	Wong E., et al., "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes", <u>Science</u> , Vol. 277, September 26, 1997, pp. 1971-1975.					
	EH	Dai, H., et al., "Synthesis and Characterization of Carbide Nanorods", <u>Nature</u> , Vol. 375, June 29, 1995, pp. 769-772.					
	EI	Junno, T., et al., "Controlled manipulation of nanoparticles with an atomic force microscope", <u>Applied Physics Letters</u> , Vol. 66, June 26, 1995, pp. 3627-3629.					
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CP	FC	Borgstrom, M., et al., "High peak-to-valley ratios observed in InAs/InP resonant tunneling quantum dot stacks", <u>Applied Physics Letters</u> , Vol. 78, No. 21, May 21, 2001, pp. 3232-3234.					
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	FE	Ohlsson B.J., et al., "Size-, shape-, and position-controlled GaAs nano-whiskers", <u>Applied Physics Letters</u> , Vol. 79, No. 20, November 12, 2001, pp. 3335-3337.					
	FF	Bjork, M.T., et al., "One-dimensional heterostructures in semiconductor nanowhiskers", <u>Applied Physics Letters</u> , Vol. 80, No. 6, February 11, 2002, pp. 1058-1060.					
	FG	Persson, M.P. et al., "Electronic Structure of Nanometer-Scale GaAs Whiskers", <u>Applied Physics Letters</u> , Vol. 81, No. 7, August 12, 2002, pp. 1309-1311.					
	FH	Thelander, C., et al., "Single-Electron Transistors in Heterostructure Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 10, September 8, 2003, pp. 2052-2054.					
	FI	Panav, N., et al., "Sharp Exciton Emission From Single InAs Quantum Dots in GaAs Nanowires", <u>Applied Physics Letters</u> , Vol. 83, No. 11, September 15, 2003, pp. 2238-2240.					
	FJ	Bjork, M.T., "Nanowire resonant tunnelling diodes", <u>Applied Physics Letters</u> , Vol. 81, No. 23, December 2, 2002, pp. 4458-4460.					
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	GD	Ohlsson, J., "Semiconductor Hetero- and Nanostructures", Doctoral Thesis, Lund Institute of Technology, Lund University, November 23, 2001.					
	GE	Thelander, C., "Quantum Devices from the Assembly of Zero-and One-Dimensional Building Blocks", Doctoral Thesis, Lund University, November 7, 2003.					
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	GG	Magnusson, M., et al., "Gold nanoparticles: Production, reshaping, and thermal charging", <u>Journal of Nanoparticle Research</u> , Vol. 1, January 1, 1999, pp. 243-251.					
	GH	Samuelson, L., "Self-Forming Nanoscale Devices", <u>Materials Today</u> , October 22, 2003, pp. 22-31.					
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	HG	Samuelson, L., et al., "Tunnel-Induced Photon Emission in Semiconductors Using an STM", <u>Physica Scripta</u> , Vol. T42, January 1, 1992, pp. 149-152.					
	HH	Seifert, W. et al, "In-Situ Growth of Quantum Dot Structures by the Stranski-Krastanow Growth Mode", <u>Prog. Crys. Growth Charact.</u> , Vol. 33, January 1, 1996, pp. 423-471.					
	HI	Persson, M., "Tight-Binding Simulation of Nanocrystalline Particles and Whiskers", <u>Tekn lic thesis</u> , Lund University, August 1, 2002.					
	HJ	Bjork, M., "Semiconductor Nanowires and Devices", <u>Tekn lic thesis</u> , Lund University, November 1, 2002.					
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	ID	Wagner, R.S., et al., "Vapour-Liquid-Solid Mechanism of Single Crystal Growth", <u>Appl. Phys. Lett.</u> , Vol. 4, No. 5, March 1, 1964, pp. 89-90.					
	IE	Canham, L.T., "Silicon Quantum Wire Array Fabrication by Electrochemical and Chemical Dissolution of Wafers", <u>Appl. Phys. Lett.</u> , Vol. 57, September 3, 1990, pp. 1046-1048.					
	IF	Koga, T., et al., "Carrier Pocket Engineering Applied to Strained ....", <u>Appl. Phys. Lett.</u> , Vol. 75, October 18, 1999, pp. 2438-2440.					
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	II	Pan, Z., et al., "Conduction band offset and electron effective mass in GaInNAs/GaAs quantum-well structures with low nitrogen concentration", <u>Applied Physics Letters</u> , Vol. 78, No. 15, April 9, 2001, pp. 2217-2219.					
	IJ	Ferry, D.K., et al., "Transport in Nanostructures", <u>Cambridge University Press</u> , Hardcover, January 1, 1997, pp. 41-45.					
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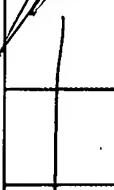
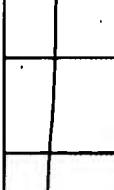
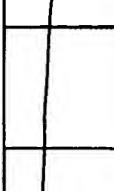
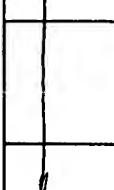
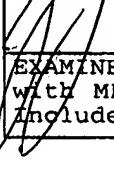
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X	JC	Ferry, D.K., et al., "Transport in Nanostructures", <u>Cambridge University Press</u> , Hardcover, January 1, 1997, pp. 91-96.
<i>J</i>	JD	Givargizov, E., "Growth of Whiskers by the Vapor-Liquid-Solid Mechanism", <u>Current Topics in Material Science</u> , edited by E. Kaldis, Chapter 3, Vol. 1, January 1, 1978, pp. 79-145.
<i>J</i>	JE	Mullins, J., "News analysis: using unusable frequencies", <u>IEEE Spectrum</u> , Vol. 39, No. 7, July 1, 2002, pp. 22-23.
	JF	Randall, J.N., et al., "Quantum Dot Devices", in Norman G. Einspruch and William R. Frensel, eds., <u>Heterostructures and Quantum Devices</u> (San Diego, CA: Academic Pres, Inc., 1994) Copyright 1994, p. 420.
	JG	Markowitz, P.D., et al., "Phase Separation in Al <sub>x</sub> Ga <sub>1-x</sub> As Nanowiskers Grown by the Solution-Liquid-Solid Mechanism", <u>J. Am. Chem. Soc.</u> , Vol. 123, April 18, 2001, pp. 4502-4511.
	JH	Hickmott, T.W., et al., "Negative Charge, Barrier Heights, and the Conduction-Ban Discontinuity in Al <sub>x</sub> Ga <sub>1-x</sub> As Capacitors", <u>J. Appl. Phys.</u> , Vol. 57, April 15, 1985, pp. 2844-2853.
	JI	Mathews, J., et al., "Defects in Epitaxial Multilayers", <u>J. Cryst. Growth</u> , Vol. 27, January 1, 1974, pp. 118-125.
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	KC	Sakaki, H., "Scattering Suppression and High-Mobility Effect of Size-Quantized Electrons in Ultrafine Semiconductor Wire Structures", <u>Japanese Journal of Applied Physics</u> , Vol. 19, No. 12, December 1, 1980, pp. L735-L738.					
	KD	Scheibel, H. et al., "Generation of Monodisperse Ag- and NaCl Aerosols With Particle Diameters Between 2 and 300 nm", <u>Journal of Aerosol Science</u> , Vol. 14, No. 2, January 1, 1983, pp. 113-126.					
	KE	Knutson, E. et al., "Aerosol Classification by Electric Mobility: Apparatus, Theory, and Applications", <u>Journal of Aerosol Science</u> , Vol. 6, January 1, 1975, pp. 443-451.					
	KF	Miller, M. et al., "Serpentine Superlattice: Concept and First Results", <u>Journal of Crystal Growth</u> , Vol. 111, January 1, 1991, pp. 323-327.					
	KG	Bhat, R., et al., "Patterned Quantum Well Heterostructures Grown by OMCD on Non-Planar Substrates: Applications to Extremely Narrow SQW Lasers", <u>Journal of Crystal Growth</u> , Vol. 93, January 1, 1988, pp. 850-856.					
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	LE	Bennett, C., et al., "Quantum information and computation", <u>Nature</u> , Vol. 404, March 16, 2000, pp. 247-255.					
	LF	Michler, P. et al., "Quantum correlation among photons from a single quantum dot at room temperature", <u>Nature</u> , Vol. 406, No. 6799, August 31, 2000, pp. 968-970.					
	LG	Chow, E., et al., "Three-dimensional control of light in a two-dimensional photonic crystal slab", <u>Nature</u> , Vol. 407, October 26, 2000, pp. 983-986.					
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<i>J</i>	LJ	Hicks, L.D. et al., "Thermoelectric Figure of Merit of a One-Dimensional Conductor", <u>Phys. Rev. B</u> , Vol. 47, No. 24, June 15, 1993, pp. 16631-16634.					
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*Dickson* 3/05

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<i>JK</i>	MD	Reed, M.A., et al., "Observation of Discrete Electronic States in a Zero-Dimensional Semiconductor Nanostructure", <u>Physical Review Letters</u> , Vol. 60, No. 6, February 8, 1988, pp. 535-537.					
<i>JK</i>	ME	Kapon, E., et al., "Stimulated Emission in Semiconductor Quantum Wire Heterostructures", <u>Physical Review Letters</u> , Vol. 63, No. 4, July 24, 1989, pp. 430-433.					
<i>JK</i>	MF	Santori, C., et al., "Triggered Single Photons from a Quantum Dot", <u>Physical Review Letters</u> , Vol. 86, No. 8, February 19, 2001, pp. 1502-1505.					
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<i>*</i>	MH	Likharev, K.K., "Single-Electron Devices and their Applications", <u>Proceedings of the IEEE</u> , Vol. 87, No. 4, April 1, 1999, pp. 606-632.					
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	TG	Hiruma, K. et al., "GaAs free-standing quantum-size wires", <u>Journal of Applied Physics</u> , Vol. 74, September 1, 1993, pp. 3162-3171.					
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	TI	Shimada et al., "Size, position and direction control on GaAs and InAs nanowhisker growth", <u>Superlattices and Microstructures</u> , Vol. 24, No. 6, December 1998, pp. 453-458					
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	TK	Hiruma, K. et al., "GaAs and InAs Nanowire Growth Technology", <u>Proceedings of the Science and Technology of Atomically Engineered Materials</u> , October 30, 1995, pp. 563-570					
<i>[Signature]</i>	TL	Westwater, J. et al., "Control of the size and position of silicon nanowires grown via the vapor-liquid-solid technique", <u>Japanese Journal of Applied Physics</u> , Part 1, October 1997, Vol. 36, pp. 6204-6209					
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<i>TIPE</i>			Applicant <b>Lars Ivar SAMUELSON et al.</b>	
<i>DEC 30 2004</i>			Filing Date <b>July 7, 2003</b>	Group <b>2811 2815</b>

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	TL 03/063208	7/31/03	WIPO			
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	TP	O'Regan et al., "A Low-Cost, High-Efficiency Solar Cell Based on Dye-Sensitized Colloidal TiO <sub>2</sub> Films", <u>Nature</u> , Vol. 353, October 24, 1991, pp. 737-740.
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*Jean Jabb* 3/05

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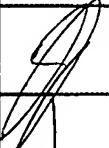
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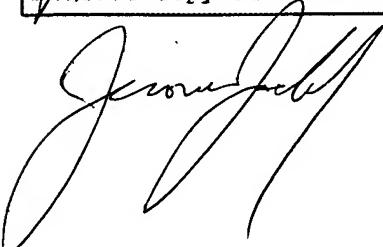
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	YC						
	YD						
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